evo Medical RemRest

3.1 Summary of Safety and Effectiveness

Non-Confidential Summary of Safety and Effectiveness

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Medical Industries America, Inc.

dba Evo Medical Solutions

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Official Contact:

Keith Theisen, Director of Engineering

Proprietary or Trade Name:

RemRest heated humidifier

Common/Usual Name:

Heated humidifier

Classification Name:

Humidifier, Respiratory Gas (Direct Patient Interface)

Predicate Devices:

Respironics – RemStar – K010263

Fisher & Paykel – HC 150 – K003973

Device Description:

The RemRest Heated Humidifier is a simple heated humidifier to be used with a CPAP device to provide heated and humidified air to the patient. It operates by a conductive heating surface warming a water reservoir and air passes over the water. The device has the following basic specifications:

Size

13.1" L x 8.4" W x 4.7" H

Weight

2.5 lbs. dry

Water capacity

400 ml (1 2/3 cups)

Power Heater setting 100-240 VAC 50/60Hz or 1.0 A max. 1-5 (85°F to 149°F / 29.4°C to 65°C)

Humidity Range

30 mg H₂O/I @ 25 lpm

Pressure drop

0.5 cm H₂O @ 40 lpm

Indications:

Indications for Use --

The evo Heated Humidifier is intended to warm and add moisture to the breathing gases for administration to a patient. It is used for patients requiring Continuous Positive Airway Pressure (CPAP) therapy for the treatment of Obstructive Sleep Apnea. The addition of heated humidification to this therapy relieves the drying and irritating effects on the patient airways, which may arise from the use of a CPAP system. Use only with

RemRest 900 series CPAP devices.

Patient Population --

Patients utilizing CPAP devices for OSA and desire to have

heated humidification

Environment of Use --

Home, Hospital, and Institutional settings

Non-Confidential Summary of Safety and Effectiveness

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Comparison to Predicate Devices:

	RemRest	Predicates	
	Heated Humidifier		
Attributes			
Indications for use	To warm and add moisture to the breathing gases for administration to a patient. It is used for patients requiring Continuous Positive Airway Pressure (CPAP) therapy for the treatment of Obstructive Sleep Apnea. The addition of heated humidification to this therapy relieves the drying and irritating effects on the patient airways, which may arise from the use of a CPAP system.	F&P - HC 150 - K003973 Respironics - RemStar with humidifier - K010263 Same	
Environments of use	Home, Hospital, Institutional	Same	
Patient Population	Patients utilizing CPAP devices for OSA and desire to have heated humidification	Same	
Contraindications	None	Same	
Technology			
Method of heating	Heated plate	Yes	
Temperature controlled	Yes	Yes	
Connects between CPAP and patient	Yes	Yes	
Thermal cutoff	Yes	Yes	

Differences Between Other Legally Marketed Predicate Devices

There are no significant differences between the proposed device, RemRest Heated Humidifier, and the identified predicates.

Third Party Review Quality Assessment

Section 1 – Submission Information	<u></u>					
510(k) No.: KOSOGGO Third Party Organization: All	the /	Artola	:			
Third Party's Primary Reviewer(s):	1.0 to 0					
ODE/OIVD Division: (1) (1) Branch/Team:	ODE/OIVD Division: DALD Branch/Team: ARDB					
Section 2 – 510(k) Decision Other (crossife)						
Third party recommendation: SE x NSE Other (specify):						
ODE/OIVD final decision: SE X NSE Other (specify)):					
Section 3 - Assessment of Third Party Review						
Review Element	Rating (check one)					
	Adequate	Minor Issue(s)	Major Issue(s)			
a. Determination of device eligibility for third party review	×					
b. Extent of pre-submission consultation with ODE/OIVD division	×					
c. Organization and format of review documentation	×					
d. Determination of 510(k) administrative completeness (screening review)	×	E				
e. Summary of device characteristics, intended use, and performance (including accessories, if applicable) and reason for 510(k) submission	X					
f. Comparison to legally marketed devices—identification and analysis of key similarities and differences	Y					
g. Rationale for conclusions and recommendation	K					
h. Use of guidance documents and standards	کد					
i. Resolution of 510(k) deficiencies and FDA requests for additional information	Ma					
j. Scope of reviewer expertise and use of consulting reviewers	× ¹					
k. Other (specify):						
Comments (explanation of ratings/issues):						
		·				
Section 4 – ODE/OIVD Assessor Information Assessed by: Date: 4 16/05		877 4	1479			
Assessed by: Date: 4 16 05	Γel. No.: _	0 0 1 7	711			
Routing: Division-Olip completed assessment (this page only) to ins	ide front co	over of 510	(k). (HFZ-402)			





MAY - 2 2005

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Medical Industries America, Incorporated C/O Mr. Ned E. Devine Responsible Third Party Official Intertek Testing Services NA, Incorporated 70 Codman Hill Road, Boxborough, Massachusetts 01719

Re: K050990

Trade/Device Name: RemRest Heated Humidifier

Regulation Number: 868.5450

Regulation Name: Respiratory Gas Humidifier

Regulatory Class: II Product Code: BTT Dated: April 18, 2005 Received: April 19, 2005

Dear Mr. Devine:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Chiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices

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Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

3.3	Indications	for	Use

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510(k) Number:

K050990

(To be assigned)

Device Name:

RemRest Heated Humidifier

Indications for Use:

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It is portable and is intended to be used in the home, hospital, and institutional settings.

Prescription Use XX (Per CFR 801.109)

or

Over-the-counter use ___

Concurrence of CDRH, Office of Device Evaluation (ODE)

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Infection Control, Contaction Courses

510(k) Number:__

K030996